

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.-81. (Canceled).

82. (New) A substantially pure CsaE polypeptide of SEQ ID NO:10.

83. (New) A substantially pure polypeptide having at least 95% amino acid sequence homology with the polypeptide of SEQ ID NO:10.

84. (New) A substantially pure CsaE polypeptide resulting from recombinant expression of the polynucleotide of SEQ ID NO:9.

81 cont'd. 85. (New) A substantially pure CsaE polypeptide resulting from recombinant expression of a polynucleotide that hybridizes under high stringency with the polynucleotide of SEQ ID NO:9. *New*

86. (New) An immunogenic composition comprising a substantially pure CsaE polypeptide of any one of claims 82-85 and a pharmaceutically acceptable carrier or diluent.

87. (New) The immunogenic composition of claim 86, wherein the pharmaceutically-acceptable carrier or diluent comprises one or more components suitable for parenteral administration.

88. (New) The immunogenic composition of claim 86, wherein the pharmaceutically-acceptable carrier or diluent comprises one or more components suitable for intranasal administration.

89. (New) The immunogenic composition of claim 86, wherein the pharmaceutically-acceptable carrier or diluent comprises one or more components suitable for intramuscular administration.

90. (New) The immunogenic composition of claim 86, wherein the pharmaceutically-acceptable carrier or diluent comprises one or more components suitable for enteric administration.

91. (New) The immunogenic composition of claim 86, wherein the pharmaceutically-acceptable carrier or diluent is an adjuvant.

92. (New) The immunogenic composition of claim 86, further comprising an additional moiety, that is not the CsaE polypeptide, that functions in the attachment of the substantially pure CsaE polypeptide to a host cell.

93. (New) The additional moiety of claim 92, wherein said moiety is the CS4 antigen or the CsaB polypeptide.

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concl'd.